

CLAIMS

What is claimed is:

1. An organic electroluminescent display comprising:

a substrate;

an organic electroluminescent unit comprising:

 a first electrode unit formed on the substrate in a first predetermined pattern,

 an organic layer formed in a second predetermined pattern, and

 a second electrode unit on a top surface of the organic layer in a third predetermined pattern to be insulated from the first electrode unit;

 a sealing unit, which is joined with the substrate to hermetically seal the organic electroluminescent unit; and

 an anti-projection unit, which is installed on at least one of the substrate, the organic electroluminescent unit, and the sealing unit, preventing an image of an interior structure of the organic electroluminescent display from being projected on the substrate.

2. The organic electroluminescent display of claim 1, wherein the sealing unit comprises:

 a cap having a cavity;

 a moisture-proof material provided in the cavity; and

 a porous tape attached to the cap to hold the moisture-proof material within the cavity; wherein the anti-projection unit comprises a black coating layer formed on the inside of the cap.

3. The organic electroluminescent display of claim 2, wherein the cap is made of an opaque material.

4. The organic electroluminescent display of claim 1, wherein the sealing unit comprises:

 a cap having a cavity;

 a moisture-proof material provided in the cavity; and

 a black porous tape attached to the cap in order to hold the moisture-proof material within the cavity; wherein

 the anti-projection unit comprises the black porous tape.

5. The organic electroluminescent display of claim 1, wherein the first electrode unit comprises a plurality of first electrode lines, and the anti-projection unit comprises an opaque insulation layer formed among the first electrode lines of the first electrode unit.

6. The organic electroluminescent display of claim 5, wherein the insulation layer is black.

7. The organic electroluminescent display of claim 1, wherein the anti-projection unit comprises an opaque insulation layer formed in a nonluminescent area of the organic electroluminescent unit.

8. The organic electroluminescent display of claim 7, wherein the insulation layer is black.

9. The organic electroluminescent display of claim 1, wherein the sealing unit comprises a rear substrate having a recessed portion corresponding to the organic electroluminescent unit.

10. The organic electroluminescent display of claim 9, wherein a black coating layer is formed on the inside of the rear substrate.

11. The organic electroluminescent display of claim 9, wherein the rear substrate is black.

12. The organic electroluminescent display of claim 9, wherein the rear substrate is made of a semitransparent material.

13. The organic electroluminescent display of claim 9, wherein the rear substrate is made of glass or a synthetic resin.

14. The organic electroluminescent display of claim 9, wherein the rear substrate comprises:

a cavity;

a moisture-proof material provided in the cavity; and
a porous tape attached thereto to hold the moisture-proof material within the cavity

15. The organic electroluminescent display of claim 1, wherein the sealing unit is made of a black synthetic resin wrapping the organic electroluminescent unit.

16. The organic electroluminescent display of claim 1, wherein the sealing unit is an encapsulator encapsulating the organic electroluminescent unit with a resin.

17. The organic electroluminescent display of claim 1, further comprising an internal insulation layer formed between the first electrode unit and the organic layer, having openings through which the first electrode unit is exposed to the organic layer.

18. The organic electroluminescent display of claim 17, further comprising a separator layer formed on the internal insulation layer.

19. The organic electroluminescent display of claim 1, wherein the anti-projection unit is made of an opaque material.

20. The organic electroluminescent display of claim 1, further comprising a polarization plate attached to a top surface of the substrate.

21. An organic electroluminescent display comprising:
a substrate;
an organic electroluminescent unit formed on the substrate;
a sealing unit provided over the electroluminescent unit; and
an anti-projection unit preventing an image of an interior structure of the organic electroluminescent display from being projected on the substrate.